fixed 9/9/2003

Page 1 of 6 Serial No.: 10 Atty. Docket No.: Form PTO-1449 (modified) 11899.0217.DVUS02 Applicant List of Patents and Publications for Applicant's MURTAZA F. ALIBHAI et al. INFORMATION DISCLOSURE STATEMENT Filing Date: Group: (Use several sheets if necessary) Herewith **Foreign Patent Documents** Other Art **U.S. Patent Documents** See Page 1-6 See Page 1 See Page 1 U.S. Patent Documents Filing Date of Class Sub **Document** Name Exam. Ref. **Date** Class Number App. Init. Des. 08/27/92 04/28/98 Walsh et al. 424 94.6 ΑI 5,743,477 Garnaat et al. 424 405 11/26/96 A2 5,882,668 03/16/99 **A3 Foreign Patent Documents** Document Class Sub Translation Exam. Ref. Date Country Class Yes/No Number Init. Des. **B**1 WO 94/21805 09/29/94 **WIPO** CIEN 15/\$2 **WIPO** CIEN 15/29 11/28/96 B₂ WO 96/37615 08/27/94 CIN 15/82 **B3** 2090552 Canada WO 99/45961 09/16/99 WIPO 39/195 **B4** A6ll K **B5** WO 99/38978 08/05/99 WIPO CIEN 15/29 15/29 **B6** WO 98/54327 12/03/98 WIPO CIPN Other Art (Including Author, Title, Date Pertinent Pages, Etc.) Exam. Ref. Citation Init. Des. CI Gaillaird, T., The Enzymic Deacylation of Phospholipids and Galactolipids in Plants, Biochem. J., 121: 379-390 (1971). C2 Racusen, D., Light acyl hydrolase of patatin, Can. J. Bot., 62: 1640-1644 (1984). C3 Andrews, D.L., et al., Characterization of the lipid acyl hydrolase activity of the major potato (Solanum tuberosum) tuber protein, patatin, by cloning and abundant expression in a baculovirus vector, Biochem. J., 252: 199-206 (1988). C4 Strickland, J.A., et al., Inhibition of Diabrotica Larval Growth by Patatin, the Lipid Acyl-Hydrolase from Potato Tubers, Physiol., 109: 667-674 (1995).

Examiner:	T.	Sadha	DATE CONSIDERED:	41	13/	05
						

					rage 2	
Form PTO-1449 (modified)	Atty. Docket No.: Serial No.: /O/C 11899.0217.DVUS02 Unknown				\$,180	
List of Patents and Publications for	Applicant MURTAZA F. ALIBHAI et al.					
Information Disclosure S		,				
(Use several sheets if necess	Filing Date: 9/9/ Herewith	2003	Group: Te-b	1652 assigned		
U.S. Patent Documents	n Patent Documents Other Art			Art		
C D 1		Cas Page 14				

Exam. Ref. Init. Des.		Citation					
J20	C5	Hofgen, R. and Willmitzer, L., Biochemical and Genetic Analysis of Different Patatin Isoforms Expressed in Various Organs of Potato (Solanum Tuberosum), Plant Science, 66: 221-230 (1990).					
	C6	Mignery, G.A., et al., Isolation and sequence analysis of cDNAs for the major potato tuber protein, patatin, <i>Nucleic Acids Research</i> , 12: 7987-8000 (1984).					
	C7	Mignery, G.A., et al., Molecular characterization of the patatin multigene family of potato, <i>Gene</i> , 62: 27-44 (1988).					
	C8	Stiekema, W.J., et al., Molecular cloning and analysis of four potato tuber mRNAs, <i>Plant Mol. Biol.</i> , 11: 255-269 (1988).					
	C9	Ganal, M.W., et al., Genetic and physical mapping of the patatin genes in potato and tomato, Mol. Gen. Genetics, 225: 501-509 (1991).					
	C10	Vancanneyt, G., et al., Expression of a Patatin-like Protein in the Anthers of Potato and Sweet Pepper Flowers, <i>Plant Cell</i> , 1: 533-540 (1989).					
	C11	Rosahl, S., et al., Expression of a tuber-specific storage protein in transgenic tobacco plants: demonstration of an esterase activity, <i>EMBO J.</i> , 6: 1155-1159 (1987).					
	C12	King, H.C., Exploring the Maze of Adverse Reactions to Foods, Ear Nose Throat J., 73(4): 237-241 (1994).					
	C13	Astwood, J.D., et al., Pollen allergen homologues in barley and other crop species, <i>Clin. Exp. Allergy</i> , 25: 66-72 (1995).					
	C14	Astwood, J.D., and Fuchs, R.L., Allergenicity of Foods Derived from Transgenic Plants, Monographs in allergy Vol. 32: Highlights in food allergy, pp. 105-120 (1996).					
	C15	Metcalfe, D.D., et al., Assessment of the Allergenic Potential of Foods Derived from Genetically Engineered Crop Plants, Critical Reviews in Food Science and Nutrition, 36S: 165-186 (1996).					
	C16	Elsayed, S. and Apold, J., Immunochemical Analysis of Cod Fish Allergen M: Locationsof the Immunoglobulin Binding Sites as Demonstrated by the Native and Synthetic Peptides, <i>Allergy</i> , 38(7): 449-459, 1983.					
Sign	C17	Elsayed, S., et al., The structural requirements of epitopes with IgE binding capacity demonstrated by three major allergens from fish, egg, and tree pollen, <i>Scand. J. Clin. Lab. Invest. Suppl.</i> , 204: 17-31 (1991).					

Examiner:	T.	Saidha	DATE CONSIDERED:	41	13/	05
CVANADICD, DUTLA	15 5 CCC5 C 1 (0)		T. C. C. L. C.	D(00, D-L.		

Form PTO-1449 (modified)		Atty. Docket No.: Serial No.: 6 6 11899.0217.DVUS02 Unknown			
List of Patents and Publications for	r Applicant's	Applicant MURTAZA F. ALIBHAI et al.			
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					
		Filing Date: Herewith	Group: 1652 T o be assigned		
U.S. Patent Documents Foreign		Patent Documents	Other Art		
See Page 1		See Page 1	See Page 1-6		

Exam. Init.	Ref. Des.	Citation
JE	C18	Zhang, L., et al., Mapping of Antibody Binding Epitopes of a Recombinant Poa p IX Allergen, Mol. Immunol., 29(11); 1383-1389 (1992).
	C19	Hefle, S., et al., Allergenic Foods, Crit. Rev. in Food Sci. Nutr., 36S: 69-90 (1996).
	C20	Church, et al., In: Kay, A.B. ed., Allergy and Allergic Diseases, Oxford, Blackwell Science, pp. 149-197 (1997).
	C21	Castells, M.C., Allergy to white potato, Allergy Clin. Immunol., 8: 1110-1114 (1986).
	C22	Hannuksela, M., et al., Immediate reactions to fruits and vegetables, Contact Dermatitis, 3: 79-84 (1977).
	C23	Golbert, T.M., et al., Systematic allergic reactions to ingested antigens, <i>Journal of Allergy</i> , 44: 96-107 (1969).
	C24	Wahl, R., et al., IgE-Mediated Allergic Reactions to Potatoes, Intl. Arch. Allergy Appl. Immunol., 92: 168-174 (1990).
	C25	Ebner, C., et al., Identification of Allergens in Apple, Pear, Celery, Carrot and Potato: Cross-Reactivity with Pollen Allergens, in: Wuthrich, B. & Ortolani, C. (eds)., Highlights in Food Allergy. Monographs in Allergy, Volume 32 Basil, Karger, pp. 73-77 (1996).
	C26	Seppala, U., et al., Identification of patatin as a novel allergen for children with positive skin prick test responses to raw potato, J. Allergy Clin. Immunol., 103: 165-171 (1999).
	C27	Cunningham, B.A., et al., Favin versus concanavalin A: Circularly permuted amino acid sequences, <i>Proc. Natl. Sci., U.S.A.</i> , 76: 3218-3222 (1979).
	C28	Teather, R.M., et al., DNA Sequence of a <i>Fibrobacter succinogenes</i> Mixed-Linkage, β-Glucanase (1,3-1,4-β-D-Glucan 4-Glucanohydrolase) Gene, J. <i>Bacteriol.</i> , 172: 3837-3841 (1990).
	C29	Schimming, S., et al., Structure of the <i>Clostridium thermocellum</i> gene <i>lic</i> B and the encoded β-1,3-1,4-glucanase, <i>Eur. J. Biochem.</i> , 204: 13-19 (1992).
	C30	Yamiuchi, D., et al., Structure of the gene encoding concanavalin A from Canavalia gladiata and its expression in Escherichia coli cells, FEBS Lett., 260: 127-130 (1991).
Sp	C31	MacGregor, E.A, et al., A circularly permuted α-amylase-type α/β-barrel structure in glucan- synthesizing glucosyltransferases, <i>FEBS Lett.</i> , 378: 263-266 (1996).

Examiner:	Te	Sardha	DATE CONSIDERED:	4/	13/05
	/:				

Form PTO-1449 (modified)	Atty. Docket No.: 11899.0217.D	:10/658,18C			
List of Patents and Publications fo	Applicant MURTAZA F. ALIBHAI et al.				
INFORMATION DISCLOSURE S	STATEMENT				
(Use several sheets if necess	Filing Date: 9/9 Herewit	2003	Group:	1652 be assigned	
U.S. Patent Documents Foreign		n Patent Documents Other Art		r Art	
See Page 1	See Page 1		See Page 1-6		

	Exam. Ref. Des.		Citation
4	Se	C32	Goldenberg, D.P. and Creighton, T.E., Circular and Circularly Permuted Forms of Bovine Pancreatic Trypsin Inhibitor, <i>J. Mol. Biol.</i> , 165: 407-413 (1983).
		C33	Li, X. and Coffino, P., Degradation of Ornithine Decarboxylase: Exposure of the C-Terminal Target by a Polyamine-Inducible Inhibitory Protein, <i>Mol. Cell. Biol.</i> , 13: 2377-2383 (1993).
		C34	Zhang, T., et al., Entropic effects of disulphide bonds on protein stablity, <i>Nature Struct. Biol.</i> , 1: 434-438 (1995).
		C35	Buchwalder, A., et al., A Fully Active Variant of Dihydrofolate Reductase with a Circularly Permuted Sequence, <i>Biochemistry</i> , 31: 1621-1630 (1994).
		C36	Protasova, N.Y., et al., Circularly permuted dihydrofolate reductase of <i>E. coli</i> has functional activity and a destabilized tertiary structure, <i>Prot. Eng.</i> , 7: 1373-1377 (1994).
		C37	Mullins, L.S., et al., Transposition of Protein Sequences: Circular Permutation of Ribonuclease T1, J. Am. Chem. Soc., 116: 5529-5533 (1994).
		C38	Garrett, J.B., et al., Are turns required for the folding of ribonuclease T1, <i>Protein Science</i> , 5: 204-211 (1996).
		C39	Hahn, M., et al., Native-like in vivo folding of a circularly permuted jellyroll protein shown by crystal structure analysis, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 91: 10417-10421 (1994).
		C40	Yang, Y.R. and Schachman, H.K., Aspartate transcarbamoylase containing circularly permuted catalytic polypeptide chains, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 90: 11980-1194 (1993).
		C41	Luger, K., et al., An 8-fold βα barrel protein with redundant folding possibilities, <i>Prot. Eng.</i> , 3: 249-258 (1990).
\exists		C42	Luger, K., et al., Correct Folding of Circularly Permuted Variants of a βα Barrel Enzyme in Vivo, Science, 243: 206-210 (1989).
1		C43	Lin, X., et al., Rearranging the domains of pepsinogen, Protein Science, 4: 159-166 (1995).
		C44	Vignais, M.L., et al., Circular permutation within the coenzyme binding domain of the tetrameric glyceraldehyde-3-phosphate dehydrogenase from <i>Bacillus stearothermophilus</i> , <i>Protein Science</i> , 4: 994-1000 (1995).
9	E	C45	Ritco-Vonsovici, M., et al., Is the Continuity of the Domains Required for the Correct Folding of a Two-Domain Protein, <i>Biochemistry</i> , 34: 16543-16551 (1995).

Examiner:	T. Saidha	DATE CONSIDERED:	14/19	2005
		<u> </u>		/

						_	
Form PTO-1449 (modified)			US02 Serial No.: 10/6			180	
List of Patents and Publications for Applicant's							
			MURTAZA F. ALIBHAI et al.				
INFORMATION DISCLOSURE STATEMENT							
	Filing Date: 9/9/	2003	Group: /	65	2,		
(Use several sheets if necessary)			Herewith To be		gned		
U.S. Patent Documents Foreign 1							
See Page 1 S		See Page 1-6					
	TATEMENT Ty) Foreign F	Applicant's Applicant MURTAZA	Applicant's Applicant Applicant MURTAZA F. ALII Filing Date: 9/9/2003 Herewith Foreign Patent Documents	Applicant's Applicant Applicant MURTAZA F. ALIBHAI et al. Filing Date: 9/9/2003 Group: Herewith To be Foreign Patent Documents Other A	Applicant's Applicant Applicant MURTAZA F. ALIBHAI et al. Fatement Filing Date: 9/9/2003 Group: /65 Herewith Foreign Patent Documents Other Art	Applicant's Applicant Applicant MURTAZA F. ALIBHAI et al. Filing Date: 9/9/2003 Group: /652. To be assigned Foreign Patent Documents Other Art	

Exam. Init.	Ref. Des.	Citation
Ik	C46	Horlick, R.A., et al., Permuteins of interleukin 1β-a simplified approach for the construction of permutated proteins having new termini, <i>Protein Eng.</i> , 5: 427-431 (1992).
	C47	Kreitman, R.J., et al., Circularly Permuted Interleukin 4 Retains Proliferative and Binding Activity, Cytokine, 7: 311-318 (1995).
	C48	Viguera, A.R., et al., The Order of Secondary Structure Elements does not Determine the Structure of a Protein but does Affect its Folding Kinetics, J. Mol. Biol., 247: 670-681 (1995).
	C49	Koebnik, R. and Kramer, L., Membrane Assembly of Circularly Permuted Variants of the E. coli Outer Membrane Protein OmpA, J. Mol. Biol., 250: 617-626 (1995).
	C50	Kreitman, R.J., et al., A ciruclarly permuted recombinant interleukin 4 toxin with increased activity, <i>Proc. Natl. Avad. Sci.</i> , 91: 6889-6893 (1994).
	C51	Stanley, J.S., et al., Identification and Mutational Analysis of the Immunodominant IgE Binding Epitopes of the Major Peanut Allergen Ara h 2, Arch. Biochem. Biophys., 342(2): 244-253 (1997).
	C52	Hopp, T.P. and Woods, K.R., A Computer Program for Predicting Protein Antigenic Determinants, Mol. Immunol., 20: 483-489 (1983).
	C53	Kyte, J. and Doolittle, R.F., A Simple Method for Displaying the Hydropathic Character of a Protein, J. Mol. Biol., 157: 105-132 (1982).
	C54	Lee, B. and Richards, F.M., The Interpretation of Protein Structures: Estimation of Static Accessibility, J. Mol. Biol., 55: 379-400 (1971).
	C55	Karplus, P.A. and Schulz, G.E., Prediction of Chain Flexibility in Proteins, <i>Naturwissenschaften</i> , 72: 212-213 (1985).
	C56	Sandhu, J., Protein Engineering of Antibodies, Critical Rev. Biotech., 12: 437-467 (1992).
	C57	Fuchs, R.L. and Astwood, J.D., Allergenicity Assessment of Foods Derived from Genetically Modified Plants, Food Technology, 50: 83-88 (1996).
	C58	Kasturi, L., et al., Regulation of N-linked core glycosylation: use of a site-directed mutagenesis approach to identify Asn-Xaa-Ser/Thr sequons that are poor oligosaacharide acceptors, <i>Biochem. J.</i> , 323: 415-519 (1997).
J8	C59	Melquist, J.L., et al., The Amino Acid Following an ASN-X-Ser/Thr Sequon is an Important Determinant of N-Linked Core Glycosylation Efficiency, <i>Biochemistry</i> , 37: 6833-6837 (1998).

			· -		4
Examiner:	T.	Saidha	DATE CONSIDERED:	4/13/	05

Form PTO-1449 (modified)		Atty. Docket No.: 11899.0217.DVUS	502	Serial No.: 10/658, 180 Unknown
List of Patents and Publications for	Applicant's	Applicant		
		MURTAZA	F. ALIE	BHAI et al.
Information Disclosure S	TATEMENT	1,		
		Filing Date: 9/9/2 Herewith	2003	Group: 1652- Tobe-assigned
(Use several sheets if necessa	ry)	Herewith		To be assigned
U.S. Patent Documents	Foreign P	atent Documents		Other Art
See Page 1	S	ee Page 1		See Page 1-6

	am. iit.	Ref. Des.	Citation
1	B	C60	Alibhai, M., et al. Re-Engineering Patatin (Sol t 1) Protein to Eliminate IgE Binding, J. Allergy Clin. Immunol., Vol. 105, no. 1 (part 2): S79, paper 239 (2000).
		C61	Astwood, J.D., et al. Identification and Characterization of IgE Binding Epitopes of Patatin, a Major Food Allergen of Potato, J. Allergy Clin. Immunol., Vol. 105, no. 1 (part 2): S184, paper 555 (2000).
		C62	Rabjohn, P., et al. Molecular Cloning and Epitope Analysis of the Peanut Allergen Ara h 3, J. Clin. Invest., NY, 103: 535-542 (1999)
		C63	Rosahl, S.; Schmidt, R.; Schell, J.; Willmitzer, L. "Isolation and Characterization of a Gene from Solanum tuberosum Encoding Patatin, the Major Storage Protein of Potato Tubers." <i>Mol. Gen. Genet.</i> 1986, 203: 214-220.
		C64	Helm, R.M.; Cockrell, G.; Herman, E.; Burks, A.W.; Sampson, H.A.; Bannon, G.A. "Cellular and Molecular Characterization of a Major Soybean Allergan." <i>Int. Arch. Allergy Immunol.</i> 1998, 117: 29-37.
I	E	C65	Shin, D.S., et al. "Biochemical and Structural Analysis of the IgE Binding Sites on Ara h1, and Abundant and Highly Allergenic Peanut Protein." J. Biol. Chem. 1998, 273 (22): 13753-13759.
T		C66	

Examiner: T. Saidha Date Considered: 4/13/05
--